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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Edward J. Kroliczek et al.  
Serial No. : 10/676,265  
Filed : October 2, 2003  
Title : EVAPORATOR FOR A HEAT TRANSFER SYSTEM

Art Unit : 3743  
Examiner : Unknown

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: July 27, 2005

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|--|--|--|-------------------------------|
| Substitute Form PTO-1449<br>(Modified)   | U.S. Department of Commerce<br>Patent and Trademark Office | Attorney's Docket No.<br>13442-009001  | Application No.<br>10/676,265 |
| <b>Information Disclosure Statement<br/>by Applicant</b><br>(Use several sheets if necessary)<br>(37 CFR §1.933) |  | Applicant<br>Edward J. Krolczek et al. |                               |
|  |  | Filing Date<br>October 2, 2003         | Group Art Unit<br>3743        |

**U.S. Patent Documents**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Patentee         | Class | Subclass | Filing Date If Appropriate |
|------------------|-----------|-----------------|------------------|------------------|-------|----------|----------------------------|
|                  | AA        | 4,862,708       | 09/1999          | Basiulis, Algerd |       |          |                            |
|                  | AB        | 5,103,897       | 04/1992          | Cullimore et al. |       |          |                            |
|                  | AC        | 5,303,768       | 04/1994          | Alaro et al.     |       |          |                            |
|                  | AD        | 5,816,313       | 10/1998          | Baker, David     |       |          |                            |
|                  | AE        | 5,842,513       | 12/1998          | Maciaszek et al. |       |          |                            |
|                  | AF        | 5,899,265       | 05/1999          | Schneider et al. |       |          |                            |
|                  | AG        | 5,950,710       | 09/1999          | Liu, Chunyan     |       |          |                            |
|                  | AH        | 5,966,957       | 10/1999          | Malhammar et al. |       |          |                            |
|                  | AI        | 6,058,711       | 05/2000          | Maciaszek et al. |       |          |                            |
|                  | AJ        | 6,330,907       | 12/2001          | Ogushi et al.    |       |          |                            |
|                  | AK        | 6,381,135       | 04/2002          | Prasher et al.   |       |          |                            |
|                  | AL        | 6,450,162       | 09/20002         | Yao et al.       |       |          |                            |
|                  | AM        | 6,615,912       | 09/2003          | Garner, Scott D. |       |          |                            |
|                  | AN        | 6,810,946       | 11/02/2004       | Hoang            |       |          |                            |
|                  | AO        | 2003/0051857    | 03/2003          | Cluzet et al.    |       |          |                            |
|                  | AP        | 2004/0206479    | 10/21/2004       | Krolczek et al.  |       |          |                            |

**Foreign Patent Documents or Published Foreign Patent Applications**

| Examiner Initial | Desig. ID | Document Number | Publication Date | Country or Patent Office | Class | Subclass | Translation |    |
|------------------|-----------|-----------------|------------------|--------------------------|-------|----------|-------------|----|
|                  |           |                 |                  |                          |       |          | Yes         | No |
|                  | AQ        |                 |                  |                          |       |          |             |    |
|                  | AR        |                 |                  |                          |       |          |             |    |
|                  | AS        |                 |                  |                          |       |          |             |    |
|                  | AT        |                 |                  |                          |       |          |             |    |
|                  | AU        |                 |                  |                          |       |          |             |    |
|                  | AV        |                 |                  |                          |       |          |             |    |

**Other Documents (include Author, Title, Date, and Place of Publication)**

| Examiner Initial   | Desig. ID | Document        |
|--|-----------|-----------------|
| Examiner Signature   |           | Date Considered |
| EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |           |                 |

Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.

13442-009001

Application No.

10/676,265

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.88(b))

Applicant

Edward J. Kroliczek et al.

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Group Art Unit

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**Other Documents (include Author, Title, Date, and Place of Publication)**

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|------------------|-----------|---|
|                  | AW        | "A high power spacecraft thermal management system," J. Ku, et al., AIAA-1988-2702, Thermophysics, Plasmadynamics and Lasers Conference, San Antonio, TX, June 27-29, 1988, 12 pages  |
|                  | AX        | "Across-Gimbal and Miniaturized Cryogenic Loop Heat Pipes," Bugby, D. et al., CP654, Space Technology and Applications International Forum-STAIIF 2003, edited by M.S. El-Genk, American Institute of Physics, 2003, pages 218-226  |
|                  | AY        | "Advanced Components for Cryogenic Integration," Bugby, D. et al., Cryocoolers 12, edited by R.G. Ross, Jr., Kluwer Academic/Plenum Publishers, 2003, pages 693-708   |
|                  | AZ        | "Advanced Components for Cryogenic Integration," D. Bugby et al., Proceedings of the 12th International Cryocooler Conference, held June 18-20, 2002, in Cambridge MA., 15 pages  |
|                  | AAA       | "Advanced Components and Techniques for Cryogenic Integration," D. Bugby et al., Environmental systems-International conference; 31st, SOCIETY OF AUTOMOTIVE ENGINEERS NEW YORK, 2001-01-2378, Orlando, FL 2001; Jul (200107), 9 pages  |
|                  | ABB       | "Advanced Components and Techniques for Cryogenic Integration," D. Bugby et al., presented at 2002 Spacecraft Thermal Control Symposium by Swales Aerospace, El Segundo, CA, March, 2002, 14 pages  |
|                  | ACC       | "An Improved High Power Hybrid Capillary Pumped Loop," J. Ku et al., paper submitted to SAE 19th Intersociety Conference on Environment Systems, SAE 891566, San Diego, CA, July 24-27, 1989, 10 pages  |
|                  | ADD       | "Design and Experimental Results of the HPCPL," Van Oost et al., ESTEC CPL-96 Workshop, Noordwijk, Netherlands, 1996, 29 pages  |
|                  | AEE       | "Design and Test of a Proof-of-Concept Advanced Capillary Pumped Loop," Triem T. Hoang, Society of Automotive Engineers, presented at the 27th Environmental systems International conference, New York, 1997, Paper 972326, 6 pages  |
|                  | AFF       | "Design and Testing of a High Power Spacecraft Thermal Management System," McCabe, Jr., Michael E. et al., National Aeronautics and Space Administration (NASA), NASA Technical Memorandum 4051, Scientific and Technical Information Division, 1988, 107 pages                     |
|                  | AGG       | "Development and Testing of a Gimbal Thermal Transport System," D. Bugby et al., Proceedings of the 11th International Cryocooler Conference, held June 20-22, 2000, in Keystone, Colorado, 11 pages  |
|                  | AHH       | "Development of a Cryogenic Loop Heat Pipe (CLHP) for Passive Optical Bench Cooling Applications," James Yun, et al., 32nd International Conference on Environmental Systems (ICES-2002), Society of Automotive Engineers Paper No. 2002-01-2507, San Antonio, Texas, 2002, 9 pages |
|                  | AII       | "Development of an Advanced Capillary Pumped Loop," Triem T. Hoang et al., Society of Automotive Engineers, presented at the 27th Environmental systems International conference, New York, 1997, Paper 972325, 6 pages   |
|                  | AJJ       | "Development of Advanced Cryogenic Integration Solutions," D. Bugby et al., presented at the 10th International Cryocoolers Conference on May 26-28, 1998 in Monterey, CA and published in "Cryocoolers 10," by Ron Ross, Jr., Kluwer Academic/Plenum Publishers, NY 1999, 17 pages |
|                  | AKK       | "Hydrogen Loop Pipe Design & Test Results," O'Connell et al., presented at 2002 Spacecraft Thermal Control Symposium by TTH Research, El Segundo, CA, March 2002, 14 pages  |
|                  | ALL       | "Multiple Evaporator Loop Heat Pipe," James Yun, et al., Society of Automotive Engineers, 2000-01-2410, 30th International Conference on Environmental Systems, July 10-13, 2000, 10 pages  |

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|---|--------------|---|
| Examiner<br>Initial   | Desig.<br>ID | Document  |
|   | AMM          | "Recent Advances in Capillary Pumped Loop Technology," J. Ku, 1997 National Heat Transfer Conference, Baltimore, MD, August 10-12, 1997, AIAA 97-3870, 22 pages                           |
|   | ANN          | "Testing of a Capillary Pumped Loop with Multiple parallel starter pumps," J. Ku et al, SAE Paper No. 972329, 1997  |
|   | AOO          | "The Hybrid Capillary Pumped Loop," J. Ku et al., paper submitted to SAE 18th Intersociety Conference on Environmental Systems, SAE 881083, San Francisco, CA, July 11-13, 1988, 11 pages |

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